

## Welcome to the inaugural issue of The Giovanni News!

As the Goddard Data and Information Services Center continues its development of Giovanni, we plan to bring you periodic updates and highlights. These updates will discuss new features; applications of current features; meeting presentations (posters and talks) as well as papers published using Giovanni analyses; and anything else we happen to think might be interesting.

So this first issue is a trial run; we would appreciate feedback on what you think of it. Email [jim.acker@nasa.gov](mailto:jim.acker@nasa.gov) with your comments.

## Did you know... ?

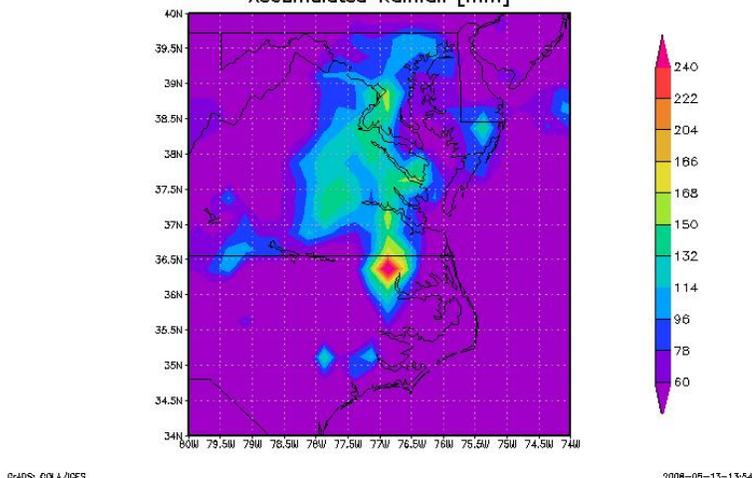
The Giovanni data analysis system for remote sensing data is not named after any particular individual named Giovanni. However, there were two famous Italian astronomers named Giovanni: Giovanni Schiaparelli, who observed Mars and connected comets with the occurrence of meteor showers; and Giovanni Cassini, who discovered Jupiter's Great Red Spot and was the first to observe Saturn's moons.

## How Much Did It Rain That Weekend?

Baseball, softball, soccer, lacrosse – outdoor sports in Maryland and eastern Virginia didn't get in many games between Friday May 9 and Monday May 12! According to the news, both Friday and Monday set rainfall records at Thurgood Marshall Baltimore-Washington International Airport (BWI), and Sunday May 11 records were set at both Reagan National and Dulles International Airport.

The new experimental Near Real Time Monitoring Product, <http://disc2.nascom.nasa.gov/Giovanni/tovas/realtime.3B42RT.shtml>, allows a quick examination of this rainfall event. Even though Maryland and Virginia and the District of Columbia received a lot of rain, northeastern North Carolina received even more. The customized color palette option in Giovanni was used to emphasize the rainfall distribution.

3-hourly TMPA-RT 00Z09May2008-03Z13May2008  
Accumulated Rainfall [mm]



## New Publication

Dr. Suhung Shen is the lead author of a paper in *Geoscience and Remote Sensing Letters*, entitled "Seasonal Variations of Chlorophyll a Concentration in the South China Sea". Giovanni was used to examine the climatology of winter upwelling in the South China Sea, which is noted particularly off the northwestern coast of Luzon Island. Giovanni's correlation plot analysis demonstrated where sea surface temperature and chlorophyll concentration were negatively correlated, defining the winter upwelling region. The correlation plot analysis also showed positive correlation between SST and chlorophyll in the outflow of the Pearl River estuary on the southern coast of China.

## Our next release...

Here's a preview of some of the features of the next Giovanni release, Giovanni 3.0.6.1.

New instances: the next release features three new instances; **OMI L2G**, for Level-2 data from the Ozone Monitoring Instrument on Aqua; **Air Quality**, featuring Environmental Protection Agency AIRNOW data for comparison to MODIS and OMI aerosol data; and **MISR Monthly**, for monthly data from the Multi-angle Imaging Spectro-Radiometer on Terra.

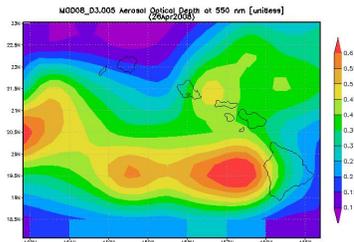
Parameter-specific preferences: This option allows users to modify specific visualizations in a multi-visualization output without altering all of them.

### Other items:

- The A-Train instance has been upgraded, including an advanced KMZ file output for Google Earth.
- There are new downloading options – a TAR file batch download option for multiple files, and ASCII output for multi-parameter visualizations.

Release 3.0.6.1 is currently in final stage testing.

## Across the Pacific via the Internet



### Kilauea volcanic aerosols, MODIS Aerosol Optical Depth Giovanni analysis, April 26, 2008

On June 2, Dr. James Acker will discuss the new online resource for education and outreach being developed jointly by the GES DISC, home of Giovanni, and the Earth Science Division Education and Public Outreach Office, home of NEO (NASA Earth Observations). The venue for the talk is the *PACON 2008 Energy and Climate Change: Innovative Approaches to Solving Today's Problems* meeting in Honolulu, Hawaii. Dr. Acker won't actually be in Honolulu; using interactive Internet technology, he will present his talk live on Honolulu directly from Greenbelt, Maryland.

## Giovanni Presentations at the NASA Carbon Cycle and Ecosystems Meeting

Several GES DISC staff members presented Giovanni-themed posters at the recent Carbon Cycle and Ecosystems meeting, which took place in College Park, Maryland during the first week of May. Lead author Zhong Liu presented “A Global Agriculture Information System” and “Monitoring Global Droughts from Space”. Lead author Aijun Chen presented “NASA Goddard Earth Observing Data in Google Earth. Lead author Suhung Shen provided “Analysis of NASA Earth Science Data through Giovanni: Demonstration of System Features and Sample Applications”. Dr. Shen also conducted a Giovanni demonstration at the meeting.

## Air Quality Presentation in Portland, Oregon

Dr. Ana Prados presented a talk entitled “Assessment of U.S. Particulate Air Quality using remote sensing and EPA surface aerosol data via Giovanni” at the United States Environmental Protection Agency 2008 National Air Quality Conference in Portland, Oregon. Her presentation is available for download at the conference Web site,

<http://www.airnow.gov/index.cfm?action=conference2008.aq3>

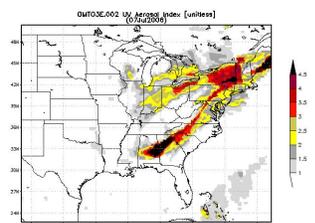


Image from the presentation: **OMI UV Aerosol Index, July 7, 2006.**